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•	Application No.	Applicant(s)
	09/381,323	AEUGLE ET AL.
Notice of Allowability	Examiner	Art Unit
	Thanh Y. Tran	2827
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. This communication is responsive to		
2. The allowed claim(s) is/are <u>6-10</u> .		
3. The drawings filed on <u>09/16/99</u> are accepted by the Examiner.		
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have been received.</li> <li>2.  Certified copies of the priority documents have been received in Application No</li> <li>3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application (PTO-152)
2.  Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 1/16/02		
<ol> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol>	<ul><li>8. ⊠ Examiner's Stateme</li><li>9. □ Other</li></ul>	ent of Reasons for Allowance
5. Siological Material	o. <u></u> .	

Application/Control Number: 09/381,323 Page 2

Art Unit: 2827

## **DETAILED ACTION**

## Allowable Subject Matter

1. Claims 6-10 are allowed.

2. The following is a statement of reasons for the indication of allowable subject matter:

claim 6 recites, inter alia, "a method for the production of a vertical MOS transistor comprising

the step of: forming a layer sequence of sequentially a lower source/drain region, a channel

region, and an upper source/drain region in the first opening, which is formed on the main

surface of the semiconductor substrate, by selective epitaxy with facets which are formed on an

edge of the layer sequence having a lesser thickness at an edge of the first opening than at a

middle of the first opening"; in the combination with other claimed features.

3. The art of record does not disclose the above limitations, nor would it be obvious to

modify the art of record so as to include the above limitations.

4. Augusto (U.S 6,207,977) teaches Vertical MOSFET device comprising lower and upper

source/drain regions and a channel region, Risch et al (U.S. 5,443,992) teaches a method for

manufacturing an integrated circuit having at least one MOS transistor, and Jastrzebski et al

(U.S. 4,554,570) teaches a vertically integrated IGFET device comprising stacked layers of a

transistor disposed on the main surface of the substrate, they do not teach the above-mentioned

limitations.

5. Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

## **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Y. Tran whose telephone number is (571) 272-2110. The examiner can normally be reached on Monday through Thursday and on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo, can be reached on (571) 272-1957. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-3431.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

DavilA, Zainela Dinary Exer

**TYT**